ORDER

DEPARTMENT OF TRANSPORTATION

FEDERAL AVIATION ADMINISTRATION

7350.2C

8/24/81

SUBJ: AIR TRAFFIC OPERATIONAL CODING SYSTEM

- 1 <u>PURPOSE</u>, To make necessary revisions to the coding and assignment of several types of Air Traffic Operational Codes used in the National Airspace System (NAS) by air traffic control personnel and in related activities. This revision is issued to identify the present and future coding schemes and to minimize the input of encoded and decoded data.
- 2. <u>DISTRIBUTION</u>. This order is distributed to selected offices in Washington, regional headquarters, Mike **Monroney** Aeronautical Center and FAA Technical Center; also to **all** Air Traffic facilities, Flight Inspection District Offices, and interested aviation public,
- 3. CANCELLATION, Order 7350.2B dated January 30, 1974, is cancelled.
- 4 BACKGROUND,
- a. A wide variety of operational codes are used in the NAS. There are, for example, codes for location names (identifiers) which include navigation aids (NAVAID's), airports, intersections, DME fixes, ILS outer markers, area navigation waypoints, route turning points, boundary crossing points, Federal airways, Jet Routes, special use airspace, special procedures (SID's, STAR's), computer only fixes, controlled airspace areas, aircraft types, aircraft operator designators, and others. Many of these codes are required for use by controllers and pilots and must be made available through charts and publications.
- b. The implementation of automated data processing systems for the Air Route Traffic Control Centers (ARTCC) and the Flight Service Stations (FSS) has required that a great number of additional locations be identified for the internal use of the computer Flight Plan Processing Program, Flight Service Automation System (FSAS), automated charting, and various other automated programs. The ARTCC and FSS automation has required many additional locations be uniquely identified. This requires that identifiers for all locations be assigned on a centralized basis.
- **c.** The assignment of **a** five-letter pronounceable name/code to all intersections, **DME** fixes, waypoints, route turning points, boundary crossing points, and **ATC** coordination fixes is nearly complete. This has released the number-letter-letter series of identifiers for use elsewhere.

Distribution: ZAT-735(minus field facilities); initiated By: AAT-430

A-FAT-0 (LTD); A-FFS-4 (LTD)

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d The Operations Division (AAT-400) has developed an overall plan for all Air Traffic Operations Codes which provides a unique format for each type of requirement (see Appendix I). Each series of codes in the plan has the capacity to provide nonduplicating codes for many years. The plan also makes provision for reserving blocks of codes for future but presently unknown requirements.

5. ACTION.

- **a.** All unassigned names retained by the Flight Inspection Field Offices or the ARTCC's shall be returned to AAT-430 upon receipt of this order. New or changes to five letter name/codes may be requested by telephone.
- b. When requesting a location identifier (see Section 3, Handbook 7350.4) send AAT-430 a written request including all pertinent data insuring accurate geographic locations. Emergency requests only may be handled by telephone and will be dealt with on a case-by-case basis.
- c. Related forms and publications are to be amended accordingly at the source of responsibility. (For example, 8260.2, etc.)
- d. Notify AAT-430 by letter, memo or message when a temporary assignment is no longer needed or its use is to be extended.
- e. Location Identifiers shall not be reassigned by AAT-430 for a period of 1 year after cancellation.
- 6. <u>DEFINITION</u>, An "operational **code"** is an abbreviation, contraction, or coined **combination** of letters **and/or** numbers used for brevity in the NAS. Excluded from this order are teletypewriter and weather symbols, ICAO codes, and codes of the ATC Radar Beacon System (ATCRBS).
- 7 PROBLEM, Increasing use of codes in the NAS can result in duplication and serious operational problems in our automated environment unless centrally controlled.
- 8. CHANGES TO THE PLAN. New name or changes of names for an intersection/fix or ILS outer marker must be requested directly from AAT-430. The FSAS requirements are being developed and the unused number-letter-letter codes shall be reserved for that program.

R. J. VAN VUREN

Director, Air Traffic Service

APPENDIX 1. AIR TRAFFIC CODING SYSTEM

(Operational Codes)

Major	Categories	Official Source Publication
I.	Location Identifiers (Assigned by AAT-400)	Handbook 7350.4
II.	Special Procedures (Assigned by AAT-400) SIDs, STARs	Handbook 7350.4
III.	Fix and RNAV Waypoint Name/Codes (Assigned by AAT-400)	Handbook 7350.4 and Federal Register-Compulsory Fixes (Annually)
IV.	Airspace Element (Assigned by AAT-200) Airways, Routes, Areas, Control Areas	Federal Register (Annually) Federal Register (56-day cycle)
V.	Coded Routes (military) (Assigned by AAT-300) Aerial Refueling, Military Training Routes, etc.	Department of Defense Flight Information Publication, Area Planning. Military Training Routes AP/1B
VI.	Aircraft Types (Assigned by AAT-400)	Handbook 7340.1
VII.	Aircraft Company Designators (Assigned by AAT-400)	Handbook 7340.1
VIII.	Word Contractions (Assigned by AAT-400)	Handbook 7340.1

The detailed coding for each category is shown on succeeding pages.

These codes, when assigned, are authorized for use on charts, Flight Information publications, written records, NAS computers, and other communications media.

Appendix 1

CATEGORY I

LOCATION IDENTIFIERS (AAT-430)

- A. Major Airports
- B. Minor Airports (U.S.)
- C. NAVAID'S (U.S.)
- D. Intersection/DME Fixes (U.S.)

Pronouceable name

E. RNAV Waypoints

Pronouceable name

- F. FSAS Requirements
- G. Computer-only Fixes

**10,000 - 15,000 High Altitude Controller Chart Supplements

15,001 - 29,999 Low Altitude Controller Chart Supplements

30,000 - 64,999 Unused

65,000 - 69,999 Special Local ARTCC Use

70,000 - 79,999 NWS Blocks Allocated to NWS

80,000 - 90,999 Unused

91,000 - 91,999 Block Allocated to NWS

92,000 - 99,499 Unused

99,500 - 99,999All Facilities Temporary Local Block

H. V/STOL - ILS

CODE STRUCTURE

LLL

LNN, NLN, NNL, LLNN, NLLN, NNLL

LLL.

LLLLL

LLLLL

NLL

NNNNN**

NOTE. There are times when these fixes are common to several strata (RNAV, High and Low Altitude, etc.) They will have a unique code within the block of numbers appropriate to the Altitude.

NNN

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ICAO Indicators

H

J. Canadian Airports/NAVAIDs

LLLL

NL, LNL, LLN

CATEGORY

SPECIAL PROCEDURES (AAT-430)

SID's

₩. STAR's

CATEGORY III

FIX AND RNAV WAYPOINT NAME (AAT-430)

Five-Letter Pronounceable Names.

CATEGORY IV

AIRSPACE ELEMENTS (AAT-200)

Airways/Routes

(1) Colored

^c2) Victor

²3) Jet

(4)

RNAV

Areas

ğ

(1) Restricted

(2) Prohibited

(3) Warning

(4) Alert

AAAAAN · AAAAA

AAAAA : AAAAAN

2 to 5 2 to 5 letters or letter/number combimatiom

CODE STRUCTURE

A/R/GB-NN

V-NNN_cL)

J-NNN(L)

J V-NNNN R

R-NNNN(L)

P-NNN

 $W-NNN_cL)$

A-NNN_cL)

Appendix

Control Areas

 \cdot

C-NNNN

(Dashes, parentheses and spaces are not actually in computer input data.) used

CATEGORY V

CODES ROUTES (Military) cAAT-300)

CODE STRUCTURE

A. Aerial Refueling

AR-NNN(L)

₽ Military Training Route

IR-NNN VR-NNN VR-NNNN

(Dashes, in computer input data.) spaces are not actually parentheses and used

CATEGORY ٧I

AIRCRAFT TYPES (AAT-430)

CODE STRUCTURE

AAAA

NOTE ı By international agreement, these codes may not exceed 4 characters.

CATEGORY VII

CIVIL AIRCRAFT COMPANY DESIGNATORS (Aircraft Identification Code) (AAT-430)

LL"/NNNN

OPERATOR CODE (2-3 letters) FLIGHT NO. (1-4 Nos.)

CATEGORY VIII

WORD CONTRACTIONS (AAT-430)

⊳ Н

LEGEND: \triangleright Γ Letter

Z Number Variable Letter/number combinations length data field

		2	3		4	5	
		LL*	LLI NNN		LLLL* NNNN	LLLI NNNI	
1 Letter-l Number	1 Lette	er-2 Num	bers	1 Let	ter-3 N	<u>lumbers</u>	1 Letter-4 Numbers
NL* LN*	LNN* NLN* NNL*			LNNN* NLNN NNLN NNNL			LNNNN* NLNNN NNLNN NNNLN NNNLN
	2 Lette	ers-l Nu	mber	2 Let	ters-2	Numbers	2 Letters-3 Numbers
	LLN* NLL* LNL*			LLNN* NLLN* NNLL* LNNL LNLN NLNL			LLNNN* NLLNN NNLLN NNNLL LNNNL* NLNLN LNLNN LNLNN LNNLN NNLNL
				3 Let	ters-l	Number	3 Letters-2 Numbers
				LLLN* NLLL LNLL LLNL			LLLNN* NLLL NNLLL LLNNL* LNNLL LNLLN LNLLN LNLLN LNLNL NLNLL NLNLL NLNLL
				4 Let NLLL LNLL LLNL LLLNL LLLNL LLLNL	,* ,* ,* ,*	Number	

LETTER-NUMBER (L/N) COMBINATIONS

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